Ontario

Ministry of
Northern Development
and Mines

René Fontaine
Minister
George Tough
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

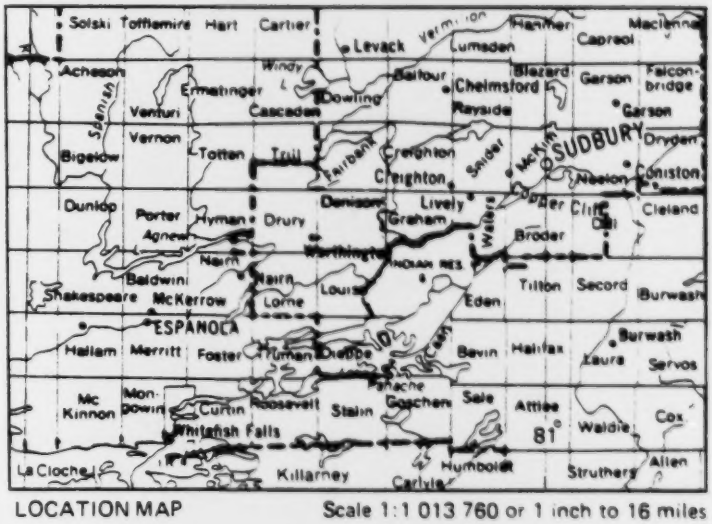
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 315

DENISON TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

87-00194/

NTS Number 41 I/6

Mining Claim Map Number M 756

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1986: Denison Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 315, compiled by the staff of the Resident Geologist's Office, Sudbury, 52p. and 2 maps.

Original Compilation by: Adlington, Richard, December 18, 1985

Date	Page Revised	Revised by

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map - 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	R. A.
2	Assessment Files Research Office, Toronto	N.A.	R. A.
3	ODM General Index; 9 Volumes	Yes	R. A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	R. A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	R. A.
6	ODM Industrial Mineral Reports	No	R. A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	R. A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	R. A.
9	Newspaper Clippings File	Yes	R. A.
10	GSC Index to Publications	Yes	R. A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	R. A.
12	OGS Index Maps	Yes	R. A.
13	Source Mineral Deposit Records (O.G.S.)	Yes	R. A.
14	Author - Subject Articles File	Yes	R. A.
15	Miscellaneous Papers: ODM & OGS	Yes	R. A.
16	ODM Geological Circulars: OGS Study Series , Geological Reports	Yes	R. A.
17	ODM Preliminary Reports: ODM Bulletins	No	R. A.
18	ODM – OGS Open File Reports	Yes	R. A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	R. A.
20	OGS Aggregate Resources Inventory Papers	No	R. A.
21	OGS Mineral Potential Maps	Yes	R. A.
22	Theses on File, Sudbury	Yes	R. A.
23	Aerial Photographs on file, Sudbury	Yes	R. A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
△ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . .Beryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
▲ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
△ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
△ gn. . . . . Galena
△ gt . . . . . Garnet
△ goe . . . . . .Goethite
▲ Au . . . . . Gold
△ gf . . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . Gypsum
△ hem . . . . . Hematite
△ il . . . . . Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (Kaolin)
△ ky . . . . . Kyanite
△ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . Magnesite
△ mag . . . . . Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
△ mb . . . . . Marble
△ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
△ ml . . . . . Millerite
△ mo . . . . . Molybdenite
▲ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
▲ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . .Pentlandite
▲ Pt. . . . . .Platinum
▲ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
▲ po . . . . . .Pyrrhotite
▲ q . . . . . Quartz
△ qcv . . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
△ si . . . . . Silica
△ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . .Smaltite
△ sod . . . . . Sodalite
△ spec . . . . . Specularite
△ sp. . . . . .Sphalerite
△ spd . . . . . .Spodumene
△ staur . . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . .Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
△ Zn . . . . . .Zinc
△ zr . . . . . Zircon
▲ S. . . . . .Sulphide mineralization

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	AER Nickel Mine	Cu, Ni, Pt, Pd	Ni 7 SMDR 834	MRC 2, p. 84 MRC 12, pp. 240,241	ODM GR 60 pp. 49-52 See ODM General Index Search
B	Crean Hill Mine	Cu, Ni, Pt, Pd	Cu 15 SMDR 899	--	OMD GR 60, p. 2 ODM Map 2119
C	Denison Mines (Robinson Mine)	Cu, Ni, Pt, Pd	Ni 7 SMDR 834	MRC 2, p. 84 MRC 12, pp. 240, 241	ODM GR 60, pp. 49-52 ODM Map 2119 See ODM General Index Search
D	Lots 3, 4, Con. 4 occurrence	po, cp	Cu 26	MRC 12, p. 274	ODM GR 60, p. 59 ODM Map P.202, no. 14
E	Lot 3, Con. 5 occurrence	Cu, Ni	Cu 24	--	ODM Map P.202, no. 11
F	Lots 3, 4, Con. 5 occurrence	S	--	--	ODM Map P.202, no. 13
G	Lot 11, Con. 2 occurrence	S	Cu 23	--	ODM Map P.202, no. 18
H	Lots 6, 7, 8, Con. 3 occurrence	py, po, cp	Cu 22	--	ODM Map P.202, no. 16
I	Lots 8, 9, Con. 5 occurrence	Cu, Ni	--	--	ODM Map P.202, no. 6
J	Lot 9, Con. 5 occurrence	Cu, Ni	Cu 13	--	R.C. p. 105 ODM Map P.202, no. 7
K	Flett, Lot 12, Con. 4 occurrence	Cu, Ni	Cu 25	--	ODM Map P.202, no. 9
L	McConnell Prospect (Flett), Lot 11, Con. 4	Cu, Ni	Cu 4	--	N.C., pp. 40, 189 ODM Map P.202, no. 8

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
M	Ellen Mine, Open pits nos. 1 & 2	Cu, Ni	Cu 14 SMDR 837	--	ODM GR 60 pp. 57, 58 ODM Map P.202, no. 12
N	Ethel Lake Deposit	Cu	Cu 5	--	R.C., pp. 106, 425 N.C., pp. 40, 189
O	Gersdorffite Mine	Cu, Ni	Ni 7 SMDR 834	MRC 12, pp. 240, 241	See ODM General Index Search
P	Howland Mine	Cu, Ni	Ni 7 SMDR 834	MRC 12, pp. 240, 241	See ODM General Index Search
Q	Lockerby Mine	Cu, Ni	Ni 5 SMDR 865	--	ODM GR 60, pp. 29, 58 See ODM General Index Search
R	McIntyre Mine	Cu, Ni	Ni 4	--	N.C., pp. 43, 189
S	Lot 10, Con. 3 occurrence (McIntyre Mine on Map P.202)	Cu, Ni	Cu 21	--	N.C., pp. 43, 189
T	Mond quartz quarry	q	Si 2	--	AR 14, pt. 3, pp. 24, 25
U	Mond quartzite quarry	SiO_2	--	--	ODM Map P.202
V	Morrin Property	Cu, Ni	--	--	AR 30, pt. 1, p. 79
W	Ranger, H.	Au	Au 4	--	--
X	Riopelle Prospect (MacDonald Mine)	Au, Cu, Ni	Cu 6	--	R.C., pp. 105, 106 N.C., p. 40

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Y	Vermilion Gold Mining Co.	Au	Cu 2 SMDR 907	--	R.C., pp. 24, 89 N.C., pp. 41, 155 Can. Mining Review, 1888, p. 51 1889, p. 8
Z	Vermilion Mine	Cu, Ni, Au, Pt, Pd	Cu 2 SMDR 907	--	ODM Map P.202 See ODM General Index Search
AA	Vermilion River occurrence	Mo	Mo 1	--	G.S.C. AR 5, pt. F, p. 25
BB	Victoria Mine	Cu, Ni	Cu 3 SMDR 905	--	ODM Map P.202 See ODM General Index Search
CC	Lot 5, Con. 4 occurrence	po	--	--	Personal Communication, Butler, R. C.
DD	Lot 3, Con. 3 occurrence	S	--	--	ODM Map P.202

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SHAFT WORK	PRODUCTION	OPEN PIT
1	Arcadia Nickel Corp. Ltd. (Associated Arcadia Nickel Corp. Ltd., AER Nickel Corp. Ltd., Pacolund Mines Ltd., Kidd Copper Mines Ltd., Howland Mine, Gersdorffite Mine, Robinson Mine, AER Nickel Mine)			66 -68	55 -57 66 -69		55 -68											55[1] -57 55[2] -57	56 57 66 -68	
2	Associated Arcadia Nickel Corp. Ltd. (Arcadia Nickel Corp. Ltd., AER Nickel Corp. Ltd.)							55 56 57 59 62												
3	Bunker Hill Extension Mines Ltd. (Lockerby Mine)				30[3] 31[3]															
4	Crean Hill Mine (Crean, F. C., Canadian Copper Co. Ltd., Inco Ltd.)			05	37 38 52 -55 57 -78		06 -19 52 -78											06[4] 55[5] -57 68[6] -71	05 -19 64 -78	67[7] -71

GDIF FORM NO. 3

DENISON TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SHAFT WORK	PRODUCTION	OPEN PIT
5	Denison Mines Ltd. (Denison Copper Mines Ltd., Denison Nickel Mines Ltd., Consolidated Denison Mines Ltd., Howland Mine, Robinson Mine)	46			28 37 -39 46		37 -39	46 50 52				46[3]				46[3]		37[8] -39		
6	Ellen Mine (Crean Hill No. 2, Inco Ltd., Canadian Copper Co. Ltd., Crean F. C.)			1900 -15	1900 -15 pre 60														61 62 64 -66 70 -71	
7	Falconbridge Nickel Ltd.				66 69															
8	Flett Property (McConnell Prospect, Inco Ltd.)			1890 's	60's															
9	Gersdorffite Mine (MacDonnell Property, AER Nickel Mine, Emmons Metal Co. Ltd., O'Connor, D.)			1891 1892																

GDIF FORM NO. 3

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SHAFT WORK	PRODUCTION	SILICA QUARRIES
COMPANY/AUTHOR (file number)																				
10	Howland Mine (AER Nickel Mine, Denison Mines Ltd., Crean, F., Totten, H.)																		15[9] 16[9]	
11	Inco Ltd.				50 62															
12	Lockerby Mine (Falconbridge Nickel Ltd., Bunker Hill Extension Mines Ltd., Consolidated Smelters Ltd., Mond Nickel Co. Ltd., Inco Ltd., Dwyer, J.)				19 +19 30 31 61 65 66														67[10] 69[10] -71 70[11] -71 73[11] -74	75[12] --	
13	McIntyre Mine (Inco Ltd., Lockerby, D.)			1888																
14	Mond Quarries																			±05[13] -14[13]
15	Morrin Property (Morrin, J., McFadden, J.)			-20	20															

GDIF FORM NO. 2

DENISON TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SHAFT WORK	PRODUCTION	OPEN PIT
16	Prosco Ltd.	57						57					57	57[3]						
17	Robinson Mine (AER Nickel Mine, Denison Mines Ltd., Corrigan, M., Robinson, H.)			-04			-04[14]													
18	Vermilion Gold Mining Co. Ltd., (Tough, R., Ranger, H.)																	15 1887 -88	1887 -88	
19	Vermilion Mine (Inco Ltd., Canadian Copper Co. Ltd., Vermilion Gold Mining Co. Ltd., Tough, R., Ranger, H.)				02[3] 83[3] 86		1898? 02 -05 15 -17											15 1887 16 1890 -98 17 1902 04[18] 15[19]	02 04 -05 15 -17	04[20]

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GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SHAFT WORK	PRODUCTION	OPEN PIT
20	Victoria Mine (McConnell Mine, Inco Ltd., Mond Nickel Co. Ltd., R. McConnell, Ranger, H.)			1899 1900	1887 1889 1969 1972		00 -02 04 -23 68 -77											00^{21} 02^{22} 22^{23} 00^{24} -18 70^{25}	00 -02 04 -23 73 -77	
	[1]No. 1 Shaft dewatered [2]No. 2 Shaft sunk, vertical [3]No Data [4]No. 1 Shaft sunk in stages. Inclined 57° to 5 level, 71° to 9 level. Vertical depth 791'. [5]No. 2 Shaft, vertical 2115' [6]No. 2 Shaft deepened to 4180' [7]No. 1 Open Pit																		

DENISON TOWNSHIP

TYPE OF WORK	Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SHAFT WORK	PRODUCTION	OPEN PIT
[8]No. 1 Shaft, vertical, 985' [9]Open Pit, 70'x80'x30' deep [10]No. 1 Shaft, vertical, 4420' [11]No. 2 Shaft, vertical, 4200' [12]With intervals of mine closure [13]For converter linings [14]Adit, 68' long [15]Vermilion Mine No. 3 Shaft, 40' deep [16]No. 1 Shaft, 60' No. 2 Shaft, 35' [17]No. 2 Shaft deepened to 50' [18]No. 4(?) Shaft, from bottom of pit, 57'																		

GDIF FORM NO. 2

TYPE OF WORK	Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	SHAFT WORK	PRODUCTION	OPEN PIT
19 No. 5(?) Shaft, vertical, 150' 20 1 large pit, several small pits 21 4 pits deepened as shafts 22 Shafts Nos. 2, 3, 4, deepened No. 3 to 102' No. 4 to 201' 23 Lake Hill Shaft, 100' 24 No. 1 Shaft progressively deepened to 3012' 25 No. 1 Shaft deepened to 3121'																			

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Arcadia Nickel	1-A	1955	N	45	15	96	--	--
1a		1-B	1955	N	45	25	600	S	--
2		2	1955	N	45	9	305	--	--
3		3	1955	N	45	10	302	--	--
4		?	1955-68	Surface holes --	No data				
5		?	1955-69	Underground holes	-- No data				
6	Crean Hill Mine	?	1937, 38	Surface holes --	No data				
7		?	1952-78	Underground holes	-- No data				
8	Denison Mines	?	1928	8 holes at Howland, 12 holes at Robinson					
8a		?	1946	Surface holes --	No data				
9		?	1937-39	Underground drilling					
10	Inco Ltd.	?	No data	Shown on O.D.M.	Map P.202				
11		?	No data	Shown on O.D.M.	Map P.202				
12		?	No data	Shown on O.D.M.	Map P.202				
13		?	No data	Shown on O.D.M.	Map P.202				
14		?	1900-15	Drill holes -- no	data				
14a		?	Pre 1960	Drill holes -- no	data				
15		?	No data						
16	Falconbridge	DEN-1	1966	S20W	80	4	380	--	--
16a		DEN-2	1966	S20W	60	3	300	py	--
16b		DEN-3	1966	S20W	45	4	124	py	--
17		DEN-6	1969	--	90	0	210	py, po	--
17a		DEN-7	1969	--	90	0	208	py, po	--
17b		DEN-8	1969	--	90	0	200	py, po	--
17c		DEN-9	1969	--	90	0	185	py, po	--
18	Inco Ltd.	5992	1950	--	90	6	1416	--	--
19		21225	1962	N26.5E	65	10	810	py	--
20		?	1919	4 holes,	no data				
20a	Mond Nickel Co.	?	+1919	1 hole,	no data				
20b	Consolidated Smelters	?	+1919	1 hole,	no data				
21	Bunker Hill Extension Mines	?	1930, 31	No data.					
21a	Falconbridge Nickel	?	1961	No data.					
21b		?	1965, 66	No data.					

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
22	Inco Ltd.	?	No data.	Holes shown on O.D.M. Map P.202					
23	Morin, J.	?	No data.	Referred to in AR30, pt.1 p. 79					
24	Inco Ltd.	?	1902	No data.					
24a		?	1983	No data.					
25		?	1986	No data at date of compilation					
26	Inco Ltd.	?	1887	No data.					
26a		?	1889	No data.					
26b		?	1969	No data.					
27		?	1972	No data.					
28	?	No data.	Shown on O.D.M. Map P.202						

GDIF FORM NO. 3

DENISON TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

DENISON TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Sudbury

A.E.R. Nickel

Northern Miner	July 17/75

A.E.R. Nickel, Arcadia Nickel, Associated Arcadia Nickel, Arcadia Minerals

Northern Miner	May 6/76

Associated Arcadia Nickel

Northern Miner	July 13/61
	Jan. 25/62
	Aug. 30/62
	July 19/62
	May 6/76

Kidd Copper

Northern Miner	Dec. 9/65
	Jan. 20/66
	Aug. 4/66
	Oct. 27/66
	Oct. /66
	Apr. 6/67
	May 18/67
	June 8/67
	July 20/67
	Sept. 21/67
	Nov. 9/67
	Nov. 16/67
	Nov. 23/67
	Dec. 28/67
	July 18/68
	Dec. 5/68
	Jan. 23/69
	June 6/74
	July 11/74
	Oct. 24/74
	Dec. 19/74
	July 17/75

Inco Ltd., Mond Nickel, Vermilion Mining Co.

Engineering & Mining Journal	Dec. 1, 1888 (Vermilion)
	Nov. 24, 1888 "
	Jan. 2, 1892 "
	Sept. 16, 1893 "
	Apr. 14, 1900 "
	Oct. 20, 1900 (Victoria)

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Sudbury

Inco Ltd., Mond Nickel, Vermilion Mining Co., con't

Engineering and Mining Journal	June 22, 1901 (Victoria)
Northern Miner	March 10,1977 "

GDIF FORM NO. 7

ODM GENERAL INDEX SEARCH

Words searched:

AER NICKEL	CREAN HILL NO. 2 MINE	DWYER, J.
ARCADIA NICKEL CORP.	DENISON COPPER MINES	ELLEN MINE
ASSOCIATED ARCADIA NICKEL	DENISON MINES	EMMONS METAL CO.
BUNKER HILL EXTENSION MINES	DENISON NICKEL MINES	ETHEL LAKE DEPOSIT
CONSOLIDATED DENISON MINES	DENISON TOWNSHIP	FLETT
CREAN HILL MINE	DWIER, J.	GERSDORFFITE MINE

Index Volume	Listing:	Report Volume	Part	Page
6	AER NICKEL CORP. LTD.			
	Capital; officers; operations			
	(1955)	65	2	107
	(1956)	66	2	106
	(1957)	67	2	111
	Change of name	65	1	38
6	ARCADIA NICKEL CORP. LTD.			
	Controls AER Nickel Corp.	65	2	107
	Licensed	61	1	37
7	ARCADIA NICKEL CORP. LTD.			
	Mining Property, Denison twp.			
	report on (1957)	MRC2		84
8	ARCADIA NICKEL CORP. LTD.			
	Denison Tp., Sudbury Dist.	GR60		3, 49
8	ASSOCIATED ARCADIA NICKEL CORP.			
	Denison Tp., Sudbury Dist.	GR60		3, 49
6	BUNKER HILL EXTENSION MINES LTD.			
	Licensed	65	1	37
5	CONSOLIDATED DENISON MINES LTD.			
	Change of name	60	1	46
1	CREAN HILL NICKEL-COPPER MINE, Denison tp.			
	Accidents	17		39, 44
		18	1	54-56,69
		19	1	58,62,63, 74,76
		21	1	66,80
		22	1	74,78
		23	1	64,74-82
		25	1	64
	Evidence re, before R.C.	R.C.		105,403
	Gold in	4		32
	Labour employed	25	1	70
	Notes by Merritt	R.C.		89
	Ores of, lime required for fluxing	16	1	66
	Photo, open-cut	18	1	87
	rock house	19	1	84
	shaft house	17		72
	Production (1907)	17		20
	(1908)	18	1	21
	(1909)	19	1	25

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

HOWLAND MINE	MACDONELL	O'CONNOR, D.
KIDD COPPER MINES	MACDONELL MINE	O'CONNOR, JOHN
LOCKERBY, D.	MCINTYRE	PACOLUND MINES
LOCKERBY MINE	MOND NICKEL CO.	PROSCO LTD.
MCCONNEL, R.	MOND QUARRY	RANGER, H
MCCONNELL MINE	MORIN NICKEL MINE	RIOPELLE, J.
MACDONALD	NORTH DENISON MINES	ROBINSON, HIRAM

Index Volume	Listing:		Report Volume	Part	Page
	Production con't				
	(1910)		20	1	26
	(1911)		21	1	23
	(1912)		22	1	24
	(1913)		23	1	20
	(1914)		24	1	24
	(1915)		25	1	15
	shaft, depth of (1915)		25	1	70
	Telephone to,		19	1	142
	Work at (1904)		14	1	71
	(1905)		15	1	64
	(1906)		16	1	62, 64
	(1907)		17		71, 72
	(1908)		18	1	86, 87
	(1909)		19	1	83
	(1910)		20	1	91
	(1911)		21	1	107
	(1912)		22	1	102,103
	(1913)		23	1	113,114
	(1914)		24	1	97
	(1915)		25	1	70
2	CREAN HILL NICKEL MINE, Denison tp.				
	See also Canadian Copper Co.				
	International Nickel Co.				
	Accident		27	1	82
	Assays		N.C.		R496
	Copper, percentage		34	8	56
	Equipment		N.C.		R213
	Flow-sheet		N.C.		R431
	Gold, percentage		34	8	56
	Historical notes		N.C.		R39
	Idle (1919)		29	1	73
	Levels, plan.	Facing	N.C.		R134
	Location. See map		N.C.		R104
	Map, geological		N.C.		R135
	Mining methods		N.C.		R213
	Nickel deposits described		N.C.		R190
	percentage		34	8	56
	Operations (1916)		26		78
	(1917)		27	1	91
	(1918)		28	1	109
	Orebody, description		N.C.		A91
					R129-132
					R139
	diagrams		N.C.		R115,138
	faults		N.C.		R137,139

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

ROBINSON MINE
SHERIDAN GEOPHYSICS
STOBIE, J.
TOTTEN, H.
TOUGH, ROBERT JOHN
VERMILION GOLD MINING CO.
VERMILION MINE
VERMILION RIVER PROSPECT
VICTORIA MINE
VICTORIA MINES

Index Volume	Listing:	Report Volume	Part	Page
	CREAN HILL NICKEL MINE, con't			
	reserves	N.C.		R134,213
	section	N.C.		R138
	Platinum, percentage	34	8	56
	Production (1916)	26		23
	(1917)	27	1	25
	(1918)	28	1	22
	(1920)	29	1	18
	(1903-1916)	N.C.		R496
	Rock house, photo	N.C.		R136
	Rocks,	34	8	3,27,51
	micropegmatite, dike-like form	N.C.		R121
	norite-micropegmatite, cross-section	N.C.		R151
3	CREAN HILL, Denison tp.			
	Rocks	43	2	30-33
3	CREAN HILL NICKEL MINE, Denison tp.			
	Ore reserves (1929)	39	1	145
5	CREAN HILL NICKEL MINE, Denison tp.			
	Employees (1950-1954)			
	See International Nickel Co.			
	Exploratory work (1952)	62	2	99
	(1953)	63	2	122
6	CREAN HILL NICKEL MINE, Denison tp.			
	Operations. See International Nickel Co. of Canada			
7	CREAN HILL NICKEL MINE, Denison tp.			
	Operations (1960)	70		92
	(1961)	71		99
	(1962)	72		99
	(1963)	73		96
8	CREAN HILL MINE, INCO			
	Denison Tp., Sudbury Dist.			
	mining property, report on	74		95, 96
		76		110
		77		101,102
		78		70
		79		77
		80		74, 75
		GR60		2,55-57

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	CREAN HILL FAULT			
	Denison Tp., Sudbury Dist.	GR60		39, 40
9	CREAN HILL MINE			
	Denison Tp., Sudbury Dist.	ASR7		107
		MPBP4		82
3	DENISON COPPER MINES, LTD.			
	Incorporated	38	1	54
8	DENISON MINES LTD.			
	See also Consolidated Denison Mines Ltd.			
	North Denison Mines Ltd.			
	Denison Tp., Sudbury Dist.	GR60		3, 49
3	DENISON NICKEL MINES LTD.			
	Capital; officers; operations			
	(1937)	47	1	25,233
	(1938)	48	1	29,222
	(1939)	49	1	32,226
	Incorporated	46	1	60
4	DENISON NICKEL MINES LTD.			
	Name changed	59	1	47
1	DENISON TP., Sud.			
	Brickyard. See Whitefish			
	Copper	R.C.		24
	chalcopyrite	1		91
		9		197
	evidence before R.C.	R.C.		104-106, 425
	notes by Merritt	R.C.		88, 89
	Galena	1		92
	Gersdorffite	6		213
	analysis	1		233
	Gold	R.C.		59,106, 112,205,
		1		92
	discovery	R.C.		425,426
	mode of occurrence	R.C.		108,113
	notes by Bell	R.C.		26
	Mine land speculation	R.C.		309,310
	Morenosite	9		205
	Nickel, arsenate	9		205
	mining	1		232

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
	DENISON TP., Sud., con't			
	See also Crean Hill m.	15	1	64
	Victoria m.			
	niccolite	9		205
	prospecting	1		232
		2		249
	Platinum	R.C.		113
		2		179
	sperrylite	R.C.		181
		6		141
		9		209
	with tin	9		211
	Polydimite	2		168
		9		207
		14	3	159
	Rocks	12		242
	diorite	R.C.		434
	greenstone	1		75
	nickel-bearing eruptiwe	14	3	24,25,30
	norite	14	3	31, 32
	olivine-diabase	14	3	127
	Silver	R.C.		203
	Tin	9		211
2	DENISON TP., Sud.			
	Mine land speculation	N.C.		R10
	Molybdenite	26		297
	Nickel, discoveries	N.C.		R39-44
	orebodies described	N.C.		R185,190
	See also Crean Hill m.			
	Morin m.			
	Vermilion m.			
	Victoria m.			
3	DENISON TP., Sud.			
	See also Crean Hill			
	Nickel mg. See Denison Nickel Mines			
	Rocks	43	2	28
	see also map 43d with	43	2	
6	DENISON TP.,Sud.			
	Nickel mining			
	See AER Nickel Corp.			
	Crean Hill ni. m.			

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
7	DENISON TP., Sud.			
	Nickel mining			
	See Crean Hill ni. m.			
	Ellen ni. m.			
8	DENISON TP., SUDBURY DIST.			
	nickel/copper	AR74		95,96
		AR76		110,123, 124
		AR77		91,101, 102,116
		AR78		59, 70, 84, 85
		AR79		65, 77 93, 94
		AR80		63, 64, 74, 75, 81,123
		MRC12		240,241
9	DENISON TP., SUDBURY DIST.			
	actinolite	MP70		20
	annabergite	MP70		33
	bornite	MP70		69, 70
	chalcanthite	MP70		99
	chalcopyrite	MP70		103,104
	copper	MP70		122
	copper/nickel float	MDC17		104
	cuprite	MP70		130
	froodite	MP70		159
	galena	MP70		163
	Geology of the Sudbury-Espanola area	S16		
	Geology of the Sudbury-Manitoulin area	GR166		
	gersdorffite	MP70		172
	gold	MDC18		98
		MP70		182
	gypsum	MP70		190
	hauchecornite	MP70		194
	hematite	MP70		197
	michenerite	MP70		233
	millerite	MP70		241
	molybdenite	MP70		250
	nickeline	MP70		263
	pentlandite	MP70		275
	plagioclase	MP70		285
	polydymite	MP70		290
	pyrite	MP70		302

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
9	DENISON TP., SUDBURY DIST., con't			
	pyrrhotite	MP70		311
	scheelite	MP70		337,338
	sperrylite	MP70		366
7	ELLEN NICKEL MINE, Denison twp.			
	Operations:			
	(1960)	70		95
	(1961)	71		101
	(1962)	72		102
8	ELLEN PIT, INCO			
	Denison Tp., Sudbury Dist.	74		99
		75		99
		76		115
		80		75
		GR60		57,58
1	EMMONS METAL CO.			
	Nickel refined	2		131
	Work, at Macdonnell mine	2		179
	Worthington mine explored by	2		168
1	GERSDORFFITE NICKEL MINE, near Worthington, Sudbury dist.			
	Gersdorffite	2		192
		14	3	160
	Morenosite	14	3	163
	Niccolite	2		192
2	GERSDORFFITE NICKEL MINE, Denison tp.			
	Historical notes	N.C.		R44
	Location See map.	N.C.		R104
	Ore body, described	N.C.		R189
3	GERSDORFFITE NICKEL MINE, Denison tp.			
	Rocks near	43	2	28
8	GERSDORFFITE MINE			
	Denison Tp., Sudbury Dist.	GR60		2, 49
1	HOWLAND NICKEL MINE			
	Work at (1915)	25	1	77
2	HOWLAND NICKEL MINE, Drury tp.			
	Historical notes	N.C.		R35
	Location See map.	N.C.		R104

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
2	HOWLAND NICKEL MINE, Drury tp., con't			
	Orebody, description	N.C.		R132,189
	Output (to 1916)	N.C.		R497
3	HOWLAND NICKEL MINE, Drury tp.			
	Ownership	38	1	164
8	HOWLAND PIT, INCO			
	Denison Tp., Sudbury Dist.	GR60		2,49,52
8	KIDD COPPER MINE			
	Denison Tp., Sudbury Dist.	MP24		29
		MRC12		240,241
8	KIDD COPPER MINES LTD.			
	Denison Tp., Sudbury Dist.			
	report on Kidd Copper Mine	76		123,124
		77		116
		78		84-86
		79		93,94
		80		123
1	LOCKERBY, D. L.	12		58
2	LOCKERBY, D. L.			
	Patentee, McIntyre nickel claim, Denison tp.	N.C.		R43
8	LOCKERBY MINE, FALCONBRIDGE			
	Denison Tp., Sudbury Dist.	77		91
		78		59
		79		65
		80		63,64
		GR60		3,58
9	LOCKERBY MINE			
	Denison Tp., Sudbury Dist.	ASR7		102
		MP91		108
		MPBP4		83
1	McCONNELL, RINALDO			
	Nickel mining	14	3	170
	See also Vermilion mine			
2	McCONNELL, RINALDO			
	Acknowledgements	N.C.		Rxlviii
	Nickel mg., Sudbury area	N.C.		R32,38, 40, 49, 51

GDIF FORM NO. 9

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
2	McCONNELL, RINALDO, con't			
	Creighton m. sold by	N.C.		A110
	See also Victoria n. m.			
8	McCONNELL MINE			
	See Victoria Mine			
1	MacDONALD NICKEL MINE, Denison tp.			
	Idle (1900)	10		122
	Work at (1902)	12		249
1	MacDONNELL MINE, Denison tp.			
	Minerals, notes	2		179,180
2	McINTYRE, ALEXANDER			
	Interested in Victoria ni. m.	N.C.		R40
2	McINTYRE NICKEL MINE, Denison tp.			
	Discovery	N.C.		R43
	Location of claim, see map	N.C.		R104
	Orebody described	N.C.		R189
8	McINTYRE MINE			
	Denison Tp., Sudbury Dist.			
	mining property, report on	GR60		52
1	MOND NICKEL CO.			
	See also Victoria m.			
	Quartz mining	21	1	41
2	MOND NICKEL CO.			
	See also Victoria ni. m.			
	Operations (1916)	26		22, 23, 28, 83
	(1917)	27	1	25,27,95
	(1918)	28	1	22, 24, 109
	(1919)	29	1	18, 74
	(1920)	30	1	16, 77
	(1921)	31	1	15
		31	10	27
	(1922)	32	1	16
		36	6	35
	(1923)	33	1	15
		33	7	24
	(1924)	34	1	81-83
	(1925)	35	1	21
	Ore production (1923)	34	1	21
	reserves	N.C.		A102,116

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
2	MOND NICKEL CO., con't			
	Production (to 1916)	N.C.		R81,497
	(1924)	34	1	21
	(1925)	35	1	24
	Quartz quarrying. See below			
	Trap, quartz and quartzite quarrying			
2	MORIN NICKEL MINE, Denison tp.			
	Diamond-drilling	30	1	79
4	NORTH DENISON MINES, LTD.			
	Change of name	59	1	47
5	NORTH DENISON MINES, LTD.			
	Name changed	64	1	60
6	NORTH DENISON MINES, LTD.			
	See Consol. Denison Mines			
7	NORTH DENISON MINES LTD.			
	See Denison Mines			
8	NORTH DENISON MINES LTD.			
	Denison Tp., Sudbury Dist.	GR60		3, 49
2	O'CONNOR, JOHN (actually Daniel)			
	Nickel claim, Denison tp.	N.C.		R44
	See also Gersdorffite ni. m.			
5	PACOLUND MINES, LTD.			
	Incorporated	60	1	45
6	PACOLUND MINES LTD.			
	See also AER Nickel Corp.			
	Name changed	61	1	38
8	PACOLUND MINES LTD.			
	Denison Tp., Sudbury Dist.	GR60		49
6	PROSCO LTD.			
	Incorporated	67	1	32, 33
1	RANGER, HENRY			
	Photo	14	3	166
	Prospector, Sudbury dist.	10		153
		14	3	135

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
1	RANGER, HENRY, con't			
	Views re:			
	gold, Denison tp.	R.C.		113
2	RANGER, HENRY			
	Nickel prospecting by	N.C.		R55
	Vermilion deposit	N.C.		R41
	Victoria (McConnell) deposit	N.C.		R40
8	RANGER, HENRY			
	Denison Tp., Sudbury Dist.	GR60		2
1	RIOPELLE, JOSEPH			
	Notes, on nickel in Denison tp.	R.C.		105
2	RIOPELLE, JOSEPH			
	Victoria ni. m.	N.C.		R40
2	ROBINSON, HIRAM			
	Nickel claim, Denison tp.	N.C.		R43
2	STOBIE, JAMES			
	of Vermilion Mg. Co.	N.C.		R70
2	TOTTEN, HENRY			
	of Howland ni. m.	N.C.		R35
2	TOUGH, ROBERT JOHN			
	of Vermilion ni. m.	N.C.		R41, 70
1	VERMILION GOLD MINING CO.			
	See also Vermilion nickel mine			
	Capital; area of property;			
	early prospecting	R.C.		113
1	VERMILION MINING CO.			
	See also Vermilion nickel m.			
	Capital and date of charter	7		13
	Merged in International Nickel Co.	11		21
		14		3
1	VERMILION NICKEL MINE, Denison tp.			
	Area	R.C.		113,309
	Boring with Govt drill	10		53

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GDIF FORM NO.4

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Author	Date	Title	Reference	Map Scales and/or Report Pages
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SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO.9

NOTES AND ADDENDA

Aerial Photographs on File, Sudbury

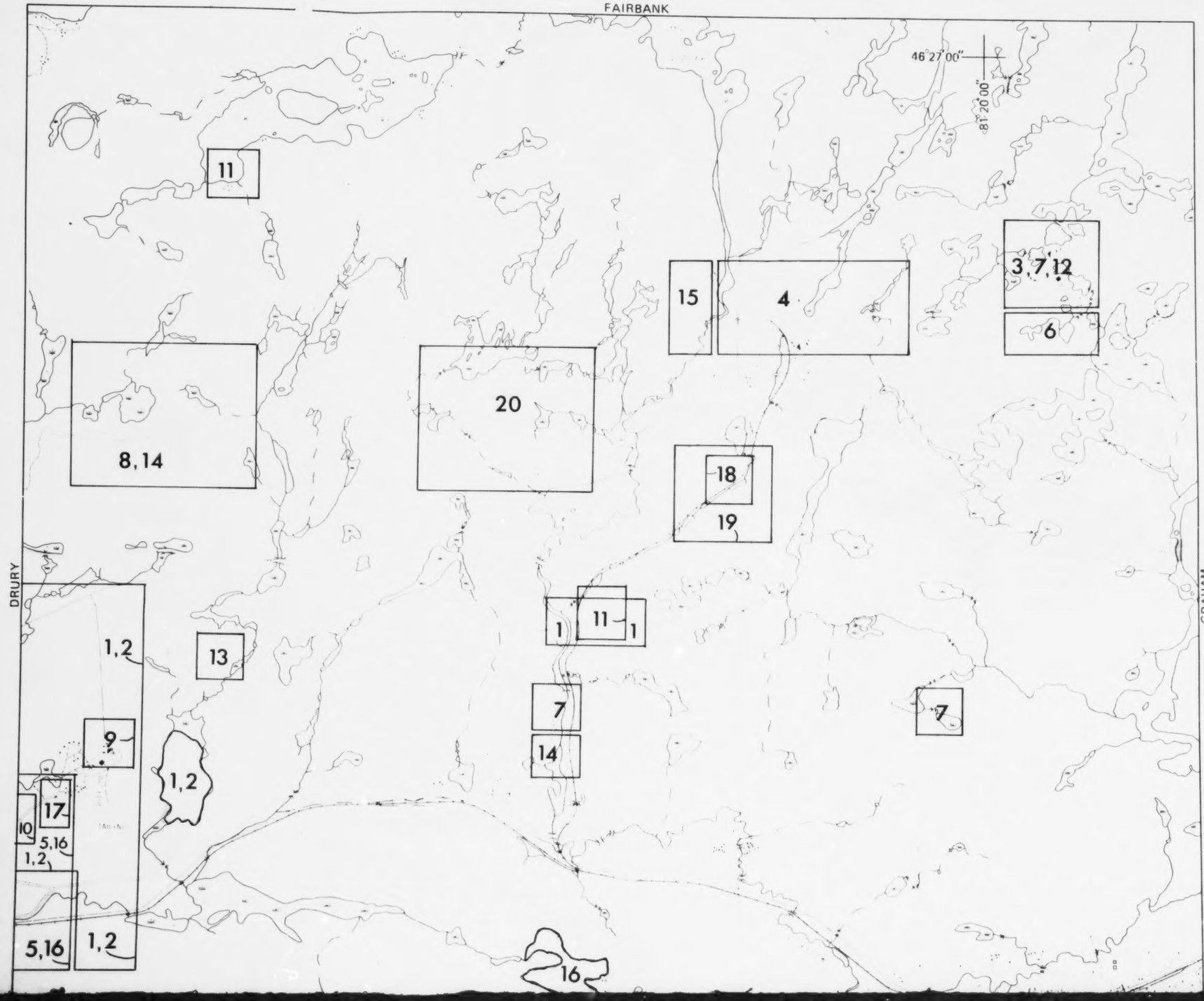
Scale 1"=¼ mile

Year	Roll	Line	Numbers
1946	12	157	33-39
	20	158	34-40
	19	159	34-41
	19	160	33-39
	19	161	33-40
1959	10	4618	56-62
	10	4617	132-138
	10	4616	55, 57-61
	55	4615	91-97
1977	64	4619	206, 208, 210
	64	4618	68, 70, 72, 74
	57	4617	162, 164, 166, 168

Millerite is present in an ore specimen taken from the dump at the AER Nickel Mine.

The McIntyre Mine, as located in the Report of the Ontario Nickel Commission, 1917, p. 189, is southwest of the deposit labelled McIntyre on ODM Map P.202.

GDIF FORM NO.10



Ministry of Northern Development and Mines

Ontario

René Fontaine
Minister

George Tough
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 315

(Map 1 of 2)

DENISON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

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(Map 1 of 2)

DENISON TOWNSHIP

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Kilometre 0.5 0 0.5 1 Kilometre

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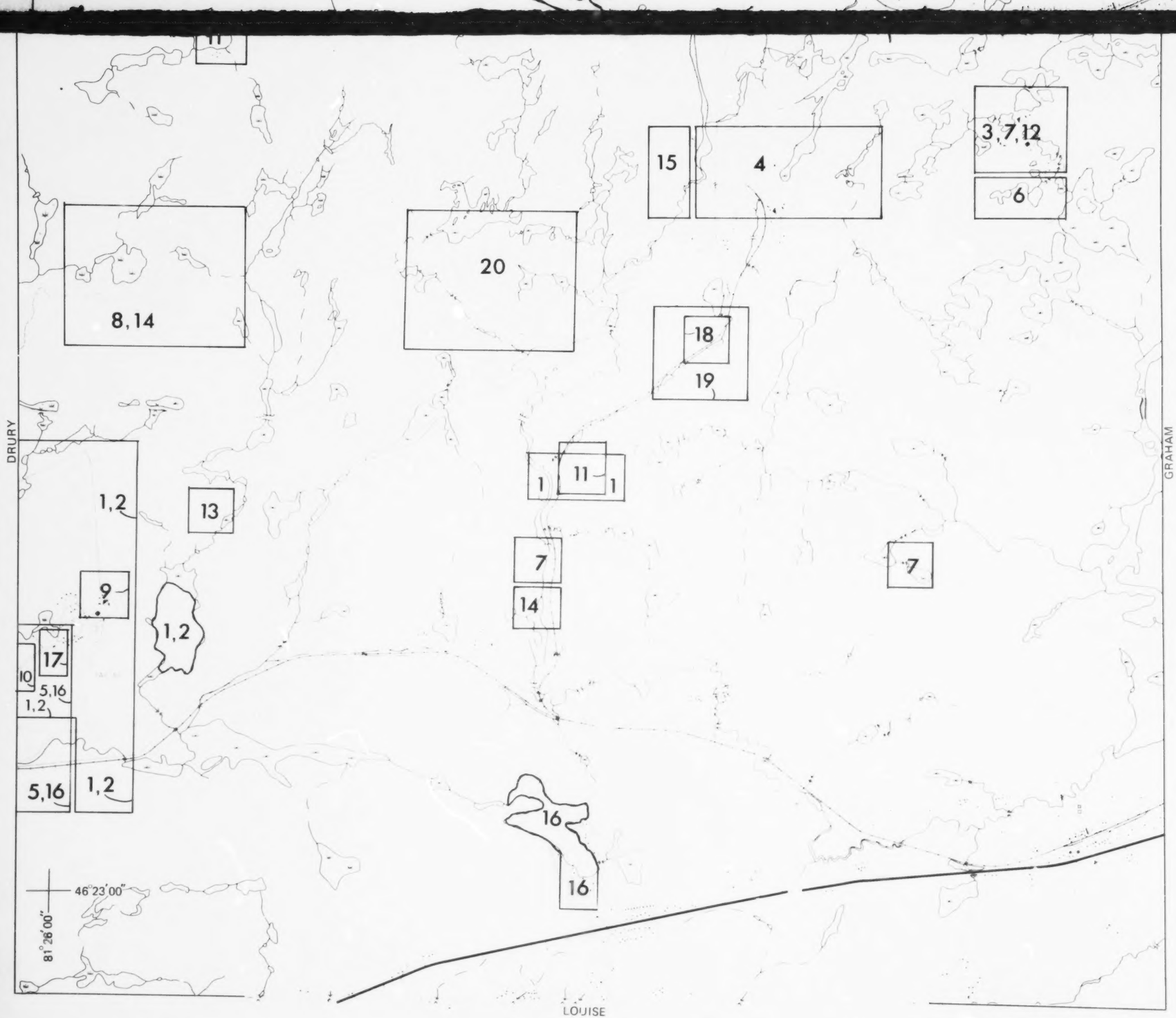


EXPLORATION DATA FILE AREAS

■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

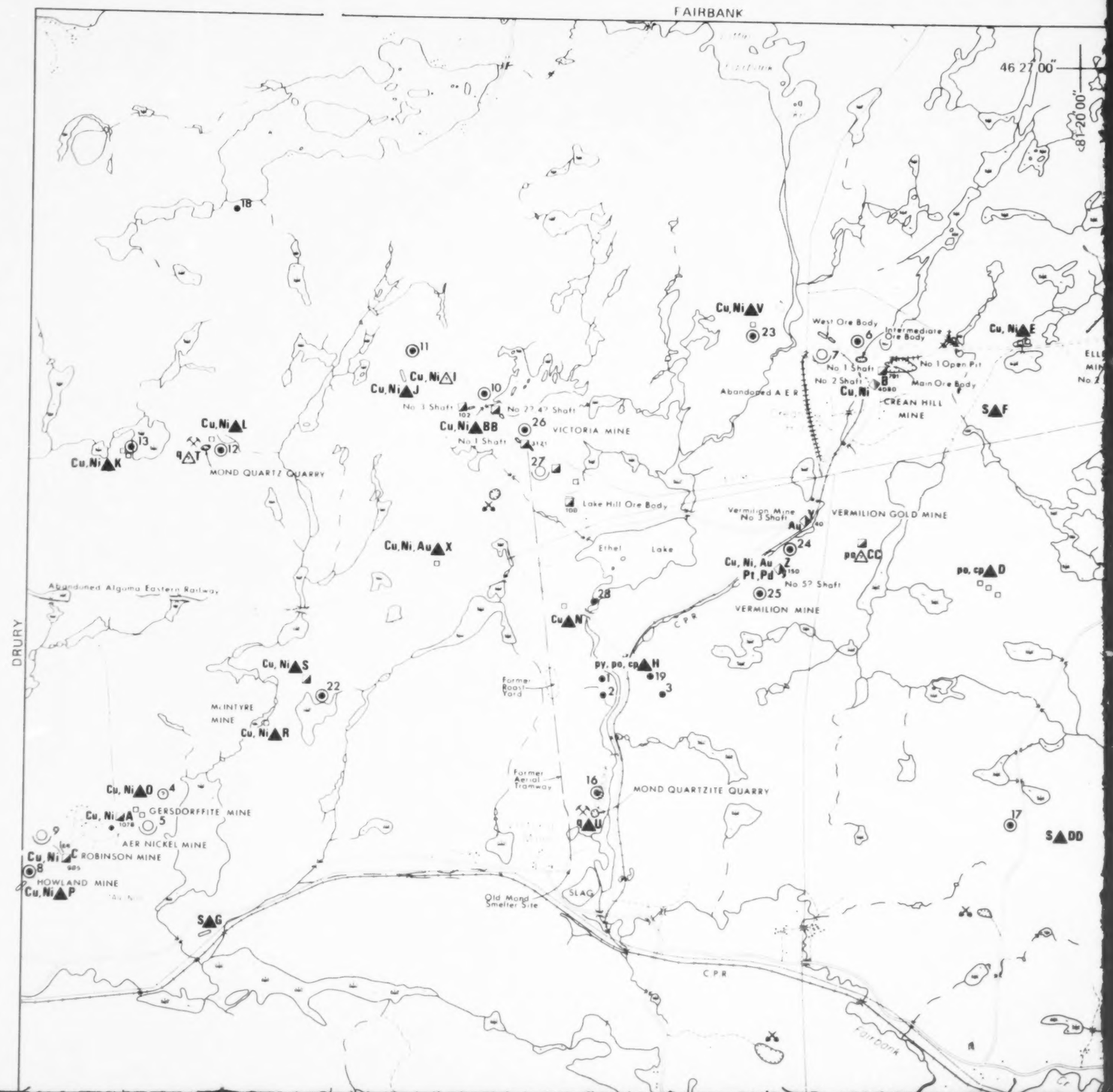
- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

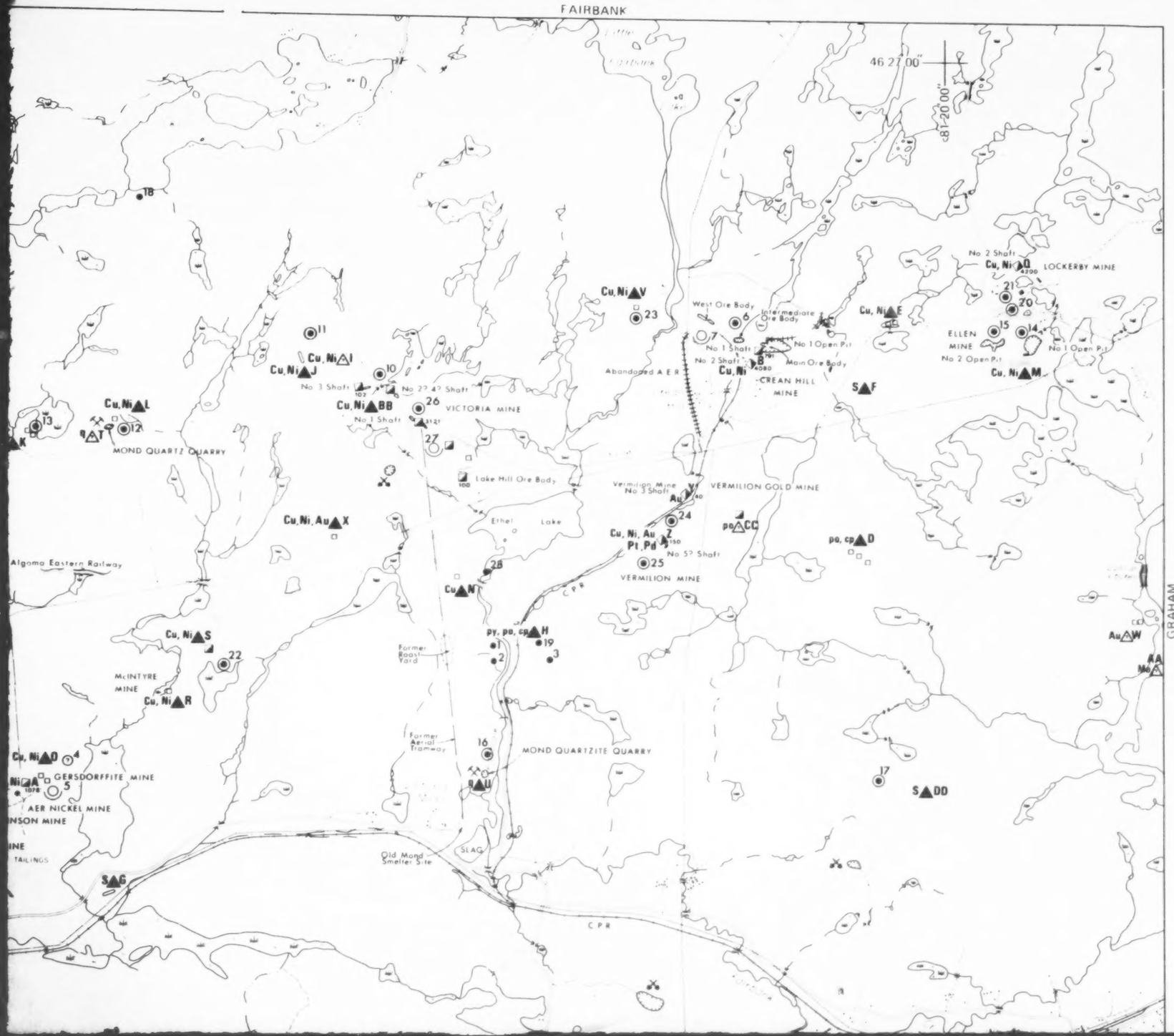
GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly — Length of anomaly along flight line
- Airborne electromagnetic anomaly — Location of anomaly along flight line
- Airborne electromagnetic anomaly — Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horzontal loop; VLF - Very low freq; Turam; JEM - Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry
- Adit
- Sand and/or gravel pit





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ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 315

(Map 2 of 2)

DENISON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp ▲ A. — Mineral occurrence at surface, with reference letter
- ■ Au ◢ A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ■ Ag △ A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp ▬ A. — Mineralized float with reference letter

DRILLHOLE

- ■ •² — Location of single drillhole, with reference number
- ■ ◉² — Location of closely spaced group of drillholes, with reference number
- ■ ⊙² — Drillhole, exact location uncertain, with reference number
- ■ ○² — Property with underground drillholes in this general area, with reference number

Age dating material sampling site, with reference number

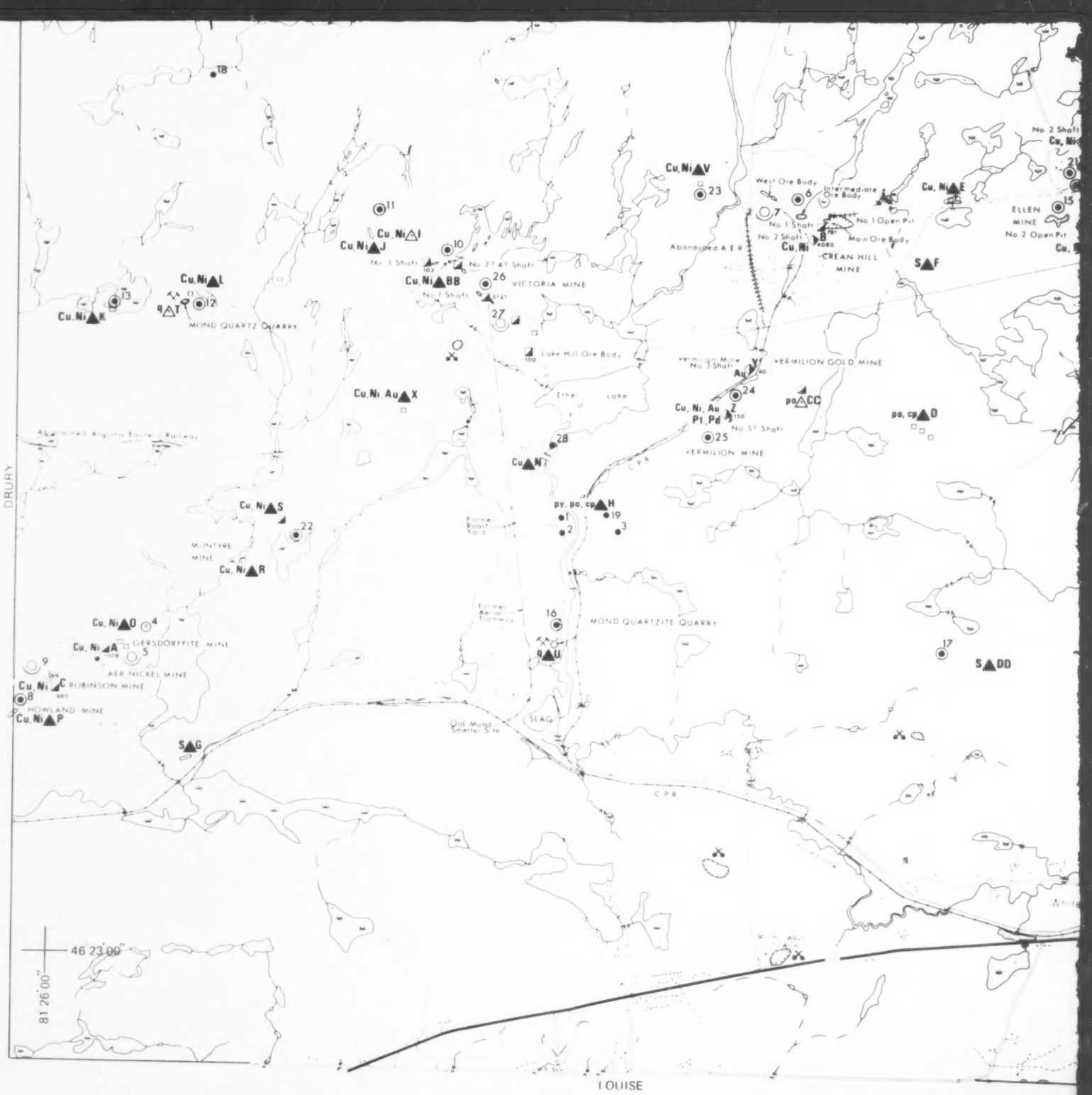
GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio frequency magnetic anomaly
  (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 315

(Map 2 of 2)

DENISON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

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- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter

DRILLHOLE

- 2 — Location of single drillhole, with reference number
- 2 — Location of closely spaced group of drillholes, with reference number
- 2 — Drillhole, exact location uncertain, with reference number
- 2 — Property with underground drillholes in this general area, with reference number
- 2 — Property with drillholes which have not been plotted on map, with reference number
- 2 — Reverse circulation drillhole; churn drilling, with reference number

GRAHAM

LOUISE